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Title: **JP1213390A2: FERROELECTRIC LIQUID CRYSTAL COMPOSITION
LIQUID CRYSTAL DISPLAY ELEMENT**

Country: **JP Japan**Kind: **A**

Inventor: **ICHIHASHI MITSUYOSHI;
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Assignee: **CHISSO CORP**
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Published / Filed: **Aug. 28, 1989 / Feb. 22, 1988**Application Number: **JP1988000039286**IPC Code: **C09K 19/46; C09K 19/42; C09K 19/44; G02F 1/137;**Priority Number: **Feb. 22, 1988 JP1988000039286**

Abstract:




PURPOSE: To obtain the present composition, consisting of specific ferroelectric chiral smectic Y liquid crystal compounds and capable of displaying half tone and providing a liquid crystal element having extremely high rate of response.

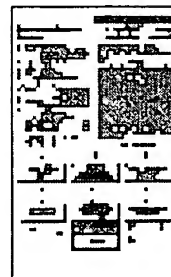
CONSTITUTION: The objective composition consisting of two or more compounds selected from the group of ferroelectric chiral smectic Y liquid crystal compounds expressed by formulas I-WVII, etc. For example, three-color display can be carried out as follows, black, orange and blue in use as a display element of 6μm cell gap and black, violet and yellowish green in use as a display element of 5μm cell gap.

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Family: [Show 3 known family members](#)

Forward References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6267910	2001-07-31	Hayashi; Hitoshi	Nippon Soken, Inc.	Antiferroelectric liquid c composition
	US6133469	2000-10-17	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Anti-ferroelectric liquid c compound
	US6129859	2000-10-10	Hijikata; Yoshimasa	Nippon Soken, Inc.	Antiferroelectric liquid c composition



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	US6103517	2000-08-15	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Process for the product an optically active alcoh novel optically active al
	US6002042	1999-12-14	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Liquid crystal compound
	US5980780	1999-11-09	Motoyama; Yuki	Mitsubishi Gas Chemical Company, Inc.	Racemic compound and ferroelectric liquid crys composition containing compound
	US5976409	1999-11-02	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Swallow-tail-shaped liq crystal compound
	US5972242	1999-10-26	Takigawa; Kenji	Denso Corporation	Smectic liquid crystal composition and liquid c display
	US5968413	1999-10-19	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compounds
	US5955001	1999-09-21	Takigawa; Kenji	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c indicating element
	US5723069	1998-03-03	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid c compound and anti-ferr liquid crystal compositi
	US5716545	1998-02-10	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
	US5705094	1998-01-06	Takeuchi; Akira	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c display element using tl
	US5700392	1997-12-23	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
	US5676881	1997-10-14	Takigawa; Kenji	Nippon Soken Inc.	Antiferroelectric liquid c composition
	US5609790	1997-03-11	Tanaka; Takashi	Seiko Epson Corporation	Liquid crystal compositi
	US5364560	1994-11-15	Mizukami; Masamichi	Mitsubishi Gas Chemical Co., Inc.	Liquid crystal compound liquid crystal display de
	US5330678	1994-07-19	Okabe; Nobuhiro	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	US5262086	1993-11-16	Suzuki; Yoshiichi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	US5184847	1993-02-09	Suzuki; Yoshiichi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound
	US5130050	1992-07-14	Hagiwara; Takashi	Showa Shell Sekiyo Kabushiki Kaisha	Liquid crystal compound

? Other Abstract Info: DERABS C89-289849 DERC89-289849